

Notice of Allowability

Application No.

10/689,171

Examiner

Michael P. Stafira

Applicant(s)

NAULLEAU, PATRICK P.

Art Unit

2877

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to filing date 10/20/2003.
2. ☒ The allowed claim(s) is/are 1-43.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 10/20/03
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-43 are allowed over the prior art of record.
2. The following is an examiner's statement of reasons for allowance:

Regarding claim 1 the prior art fails to disclose or make obvious a method, for evaluating the reflection coating uniformity of an optical component that has a concave reflective optical surface having the steps of positioning the optical component so that its concave reflective optical surface transforms diverging radiation from the source of divergent radiation into a converging beam at a focused point where an image of the source of divergent radiation is created; positioning a spatially imaging radiation detector far from the focused point such that substantially the entire surface of the detector is illuminated by the beam reflected from the concave surface; creating a recorded image by recording a first image that is reflected from the concave reflective optical surface to thereby geometrically map lateral positions on the concave reflective optical surface of the optical component to lateral positions of the spatially imaging detector and analyzing intensity variations across the recorded image to determine reflectivity variations across the optical surface, and in combination with the other recited limitations of claim 1. Claims 2-20 are allowed by the virtue of dependency on the allowed claim 1.

Regarding claim 21, the prior art fails to disclose or make obvious a method, for evaluating the coating uniformity of an optical component that has a convex or flat reflective optical surface having the steps of positioning a concave optic which transforms the illumination source into a convergent beam; positioning the optical component under evaluation so that its convex or flat reflective optical surface is illuminated by the convergent beam; positioning a

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spatially imaging detector such that substantially the entire beam reflected from the convex or flat reflective surface is projected onto said detector; creating a recorded image by recording a first image that is reflected from the convex or flat reflective optical surface to thereby geometrically map lateral positions on the convex or flat reflective optical surface of the optical component to the lateral positions of the spatially imaging detector and analyzing intensity variations across the recorded image to determine the reflectivity variations across the optical surface, and in combination with the other recited limitations of claim 21. Claims 22-43 are allowed by the virtue of dependency on the allowed claim 21.

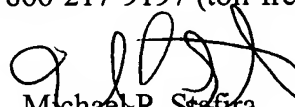
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael P. Stafira whose telephone number is 571-272-2430. The examiner can normally be reached on 4/10 Schedule Mon.-Thurs..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Toatley can be reached on 571-272-2800 ext. 77. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Michael P. Stefira
Primary Examiner
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October 25, 2005